



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,990	02/07/2007	Joachim Bruchlos	DE920030057US1	6932
46320	7590	01/31/2011		
CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP			EXAMINER	
STEVEN M. GREENBERG			STRODER, CARRIE A	
950 PENINSULA CORPORATE CIRCLE			ART UNIT	PAPER NUMBER
SUITE 2022			3689	
BOCA RATON, FL 33487				
		MAIL DATE	DELIVERY MODE	
		01/31/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/572,990	Applicant(s) BRUCHLOS ET AL.
	Examiner CARRIE A. STRODER	Art Unit 3689

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 13 December 2010.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 14,21,28 and 35-53 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 14, 21, 28, and 35-53 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-448)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 13 Sep 2010
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

1. This is in response to the applicant's communication filed on 23 July 2010, wherein:

Claims 14, 21, 28, and 35-53 are currently pending;
claims 1-13, 15-20, 22-27, and 29-34 are cancelled; and
claims 14, 21, and 28 are currently amended.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. **Claim 14, 21, 28, 35-36, 40, 42, 46, 48, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dan et al. (US 6148290), in view of Reid et al. (US 20020178120).**

Referring to claims 14 and 28:

Dan discloses

creating said contract data comprising contract selection parameters (col. 7, lines 24-47; "This registration preferably includes storing of a service contract identification number,

information regarding the service contract and the service contract itself.");

including said contract data into a request for said service (col. 7, line 24 thru col. 8, lines 20; "...in step 720, the contract enforcement code is generated and integrated with the service implementation code for enabling actual runtime invocation. FIG. 8 illustrates the use of the contract enforcement code during runtime, according to an embodiment of the present invention. In step 800, an external request (or message, or document) arrives at a particular enforcement code component. The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received), and whether such a request (or message, or document) is acceptable from the specific requester as per the rules of interaction...");

issuing, via the network, said request for said service (col. 7, line 24 thru col. 8, lines 20 and abstract; "In step 800, an external request (or message, or document) arrives at a particular enforcement code component. The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received),

and whether such a request (or message, or document) is acceptable from the specific requester as per the rules of interaction..."); and

receiving, via the network the service according to said at least one service contract (col. 7, line 24 thru col. 8, lines 20 and abstract; "...the contract enforcement code invokes, in step 820, an appropriate application method (or program). After the appropriate service implementation logic is executed to provide this service, a response may be generated").

Dan discloses a system for providing services according to a contract. Similarly, Reid teaches a system for storing contracts in a database, which may then be searched for a particular contract, and then determining the outstanding obligations of said contract (see paragraphs 35 and 42).

Reid teaches

contract selection parameters for subsequently selecting at least one service contract out of said plurality of contracts (paragraphs 33 and 35; the database can interface with other databases or networks and may be searched for particular agreements based several parameters, including agreement number; when a database is searched for particular items, it selects the items which fit the search parameters and returns that item to the searcher); and

where the at least one service contract is selected based upon the contract selection parameters (paragraphs 33 and 35; the database can interface with other databases or networks and may be searched for particular agreements based several parameters, including agreement number; when a database is searched for particular items, it selects the items which fit the search parameters and returns that item to the searcher).

It would have been obvious to a person having ordinary skill in the art at the time of invention to modify the system disclosed by Dan, which seems to interface directly with a specific contract (see Figure 5) to include selecting the contracts from a database as taught by Reid as this would enable the storage of multiple contracts in a central repository, rather than individual storage, which would facilitate changes to the contract as well as increase security.

Referring to claim 21:

Dan teaches

at least one processor, wherein the at least one processor configured for (col. 7, lines 24-47; "server" and where a server inherently includes a processor):

creating said contract data comprising contract selection parameters (col. 7, lines 24-47; "This registration preferably includes storing of a service contract identification number,

information regarding the service contract and the service contract itself.");

including said contract data into a request for said service (col. 7, line 24 thru col. 8, lines 20; "...in step 720, the contract enforcement code is generated and integrated with the service implementation code for enabling actual runtime invocation. FIG. 8 illustrates the use of the contract enforcement code during runtime, according to an embodiment of the present invention. In step 800, an external request (or message, or document) arrives at a particular enforcement code component. The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received), and whether such a request (or message, or document) is acceptable from the specific requester as per the rules of interaction...");

issuing said request for said service (col. 7, line 24 thru col. 8, lines 20; "In step 800, an external request (or message, or document) arrives at a particular enforcement code component. The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received), and whether such a request (or message, or

document) is acceptable from the specific requester as per the rules of interaction..."); and

receiving the service according to said selection (col. 7, line 24 thru col. 8, lines 20; "...the contract enforcement code invokes, in step 820, an appropriate application method (or program). After the appropriate service implementation logic is executed to provide this service, a response may be generated.").

Dan discloses a system for providing services according to a contract. Similarly, Reid teaches a system for storing contracts in a database, which may then be searched for a particular contract, and then determining the outstanding obligations of said contract (see paragraphs 35 and 42).

Reid teaches

contract selection parameters for subsequently selecting at least one service contract out of said plurality of contracts (paragraphs 33 and 35; the database can interface with other databases or networks and may be searched for particular agreements based several parameters, including agreement number; when a database is searched for particular items, it selects the items which fit the search parameters and returns that item to the searcher); and

where the at least one service contract is selected based upon the contract selection parameters (paragraphs 33 and 35; the database can interface with other databases or networks and may be searched for particular agreements based several parameters, including agreement number; when a database is searched for particular items, it selects the items which fit the search parameters and returns that item to the searcher).

It would have been obvious to a person having ordinary skill in the art at the time of invention to modify the system disclosed by Dan, which seems to interface directly with a specific contract (see Figure 5) to include selecting the contracts from a database as taught by Reid as this would enable the storage of multiple contracts in a central repository, rather than individual storage, which would facilitate changes to the contract as well as increase security.

Referring to claim 35:

Dan teaches receiving, via the network, said contract data included in a request with which the service is requested, wherein said contract data comprises contract selection parameters for selecting at least one service contract out of said plurality of contracts (col. 7, line 24 thru col. 8, lines 20 and abstract; "...in step 720, the contract enforcement code is generated and

integrated with the service implementation code for enabling actual runtime invocation. FIG. 8 illustrates the use of the contract enforcement code during runtime, according to an embodiment of the present invention. In step 800, an external request (or message, or document) arrives at a particular enforcement code component. The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received), and whether such a request (or message, or document) is acceptable from the specific requester as per the rules of interaction...");

evaluating said contract selection parameters (col. 7, line 24 thru col. 8, lines 20; "The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service (e.g., requests and responses received), and whether such a request (or message, or document) is acceptable from the specific requester as per the rules of interaction...");

providing, via the network, the service according to said contract (col. 7, line 24 thru col. 8, lines 20 and abstract; "...the contract enforcement code invokes, in step 820, an appropriate application method (or program). After the

appropriate service implementation logic is executed to provide this service, a response may be generated.").

Dan discloses a service contract system for providing a service over a network. Dan does not explicitly disclose selecting one particular contract according to said evaluation and further selection logic.

However, Reid teaches a similar system for managing contracts. Reid teaches selecting one particular contract according to said evaluation and further selection logic (paragraph 35; "...allows a user to search for agreements based on several fields including but not limited to: agreement number...").

It would have been obvious for a person of ordinary skill in the art (PHOSITA) at the time of invention to modify the system disclosed in Dan to incorporate selecting one particular contract according to said evaluation and further selection logic as taught by Reid because this would provide a manner for selecting the desired contract from among a plurality of contracts thus aiding the client by providing the proper contract.

Referring to claims 36, 42, and 48:

Dan teaches wherein said contract data is processed via software interfaces adapted to comprise said contract data, said

interfaces comprising respective definitions of the protocol in use (col. 6, lines 38-61; "The client/requester logic implementation 528 executing in the client engine 516, makes its service requests via an interface 530 which is a standard programming interface identifying the types of requests for service which can be made for the service provided by the application 500...For example, enforcement code 512, upon receiving a request to be sent from the application 526, can log the request (noting time and content), number the request for correlation to an anticipated response, provide a signing function, include a timer function and notification in event of timeout and pass the request by a chosen protocol." and where it would have been obvious to a person having ordinary skill in the art at the time of the invention to include the protocols and ports required to communicate since communication takes place).

Dan does not teach where said interfaces comprise respective definitions of the transport protocol in use, of the messaging protocol in use, and on an associated port type in use. However, Examiner takes Official Notice that various transport protocols, messaging protocols, and port types were old and well known at the time of the invention (else, why would the invention need to specify the ones in use?) and therefore, it would have been obvious to a person having ordinary skill in

Art Unit: 3689

the art at the time of invention, to define the protocols and port types which would be provided by the service provider because then it would be clear to all parties concerned, exactly what protocols and ports would be supported by the service provider.

Further, claim limitations that employ phrases of the type "adapted to," "capable of," or "for" doing something are typical of claim limitations which may not distinguish over prior art. It has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to do so.

Referring to claims 40, 46, and 52:

Dan teaches wherein multiple contract selection parameters are combined in a single service request (col. 7, line 24 thru col. 8, line 20; "The contract enforcement code then determines, based on the incorporated rules of interaction, the current interaction state and the interaction history of the service..." and where "rules" indicates the combination of multiple contract selection parameters in a single service request).

3. Claims 37-39, 43-45, and 49-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dan et al. (US 6148290), in view of Reid et al. (US 20020178120), and further in view of "SOAP Version 1.2 part 1: Messaging Framework", W3C, 2 October 2001 (hereinafter referred to as "SOAP").

Referring to claims 37, 43, and 49:

Dan and Reid do not disclose; however, SOAP teaches wherein said contract data is processed within header fields of a web service request (Section 4.2.1).

It would have been obvious for a person of ordinary skill in the art (PHOSITA) at the time of invention to modify the teachings of Dan and Reid to process said contract data within header fields of a web service request as taught by SOAP because this would allow for the exchange of information in a decentralized, distributed environment (see Abstract of SOAP reference).

Referring to claims 38, 44, and 50:

Dan and Reid do not disclose; however, SOAP teaches wherein said contract data is processed as a part of the endpoint specification of a respective service request (Section 4.2.3).

Referring to claims 39, 45, and 51:

Dan and Reid do not disclose; however, SOAP teaches wherein said contract selection parameters are transported in a SOAP

message conforming to the SOAP standard (Section 1; "SOAP version 1.2 provides a simple and lightweight mechanism for exchanging structured and typed information between peers in a decentralized, distributed environment using XML").

4. Claims 41, 47, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dan et al. (US 6148290), in view of Reid, and further in view of Lamb et al. (US 20050198111).

Referring to claims 41, 47, and 52:

Dan and Reid do not disclose; however, Lamb teaches wherein said contract selection parameters comprise meta-data identifying a particular contract (paragraph 96; "A format output bundle activity 1526 will hold all conditioned events for a determined amount of time, sort them by date, and bundle all of the conditioned event objects by contract clause ID and add any metadata needed to identify the bundle." implies that metadata may be used to identify a contract).

It would have been obvious for a person of ordinary skill in the art (PHOSITA) at the time of invention to modify the teachings of Dan as taught by Lamb because this would assist in identifying the appropriate contract.

Response to Arguments

Applicant's arguments filed 13 December 2010 have been fully considered but they are not persuasive.

Applicant's arguments with respect to claims 14, 21, and 28 have been considered but are moot in view of the new ground(s) of rejection.

With respect to claim 35, applicant argues that Reid does not teach "selecting" a contract, but merely searching for a contract. Examiner respectfully disagrees. Reid teaches in paragraph 35 that a user may search for a contract. When a database is searched for a particular item, the computer returns a result of the items which are found to meet the search requirements. Thus, the contract is selected.

Examiner also notes applicant's recital of MPEP §706(II) and assures applicant that if applicant meets the conditions recited by MPEP §706(II), Examiner will comply with MPEP §706(II).

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS

Art Unit: 3689

of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARRIE A. STRODER whose telephone number is (571)270-7119. The examiner can normally be reached on Monday - Thursday 8:00 a.m. - 5:00 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jan Mooneyham can be reached on (571)272-6805. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CARRIE A. STRODER/
Examiner, Art Unit 3689

/Jamisue A. Plucinski/
Supervisory Patent Examiner, Art Unit 3629